

IN THE CLAIMS:

Please amend Claims 4, 6, 13 and 16 as shown below. The claims, as currently pending in the application, read as follows:

1. (Previously Presented) An authentication method in a print process that requires user authentication, comprising the steps of:

obtaining information identifying an application which has issued an instruction to print electronic data of a print object; and
executing user authentication for approving or accounting for an output of the electronic data based on the information identifying the application.

2. (Previously Presented) The method according to claim 1, further comprising a step of extracting attribute information including the information identifying the application from the electronic data of the print object, and

wherein the attribute information contains various kinds of document attribute information including at least one of a document name, application name, document creator/updater, affiliation of the document creator/updater, password, create/update date, which are associated with a document print process.

3. (Original) The method according to claim 1, further comprising the step of executing, when user authentication has succeeded and a print process is executed, an accounting process of expendables associated with the document print process for each user or each department of a group to which the user belongs.

4. (Currently Amended) The method according to claim [[1]] 2,
wherein the attribute information contains various kinds of application attribute
information including at least one of an application name, application user, affiliation of
the application user, password, use date, which are associated with the application used.

5. (Original) The method according to claim 1, further comprising
the step of executing, when user authentication has succeeded and a print process is
executed, an accounting process associated with use of the application for each user or each
department of a group to which the user belongs.

6. (Currently Amended) The method according to claim [[1]] 2,
wherein user authentication is executed by comparing an ID and password found based on
the attribute information, and an ID and password that a user inputs to a printer.

7. (Previously Presented) An authentication system in a print process
that requires user authentication, comprising:

means of obtaining information identifying an application which has issued
an instruction to print electronic data of a print object; and
means of executing user authentication for approving an output of the
electronic data or accounting based on the information identifying the application.

8. (Previously Presented) The system according to claim 7, further comprising means of extracting attribute information including the information identifying the application from the electronic data of the print object, and

wherein the attribute information contains various kinds of document attribute information including at least one of a document name, application name, document creator/updater, affiliation of the document creator/updater, password, create/update date, which are associated with a document print process.

9. (Previously Presented) The system according to claim 8, wherein said authentication system comprises a client computer or print server which is installed with a printer driver, a server for managing a network, and a printer for executing the print process, which are connected via a network, and

said obtaining means and extraction means are included in the printer driver, and said user authentication means is included in the server.

10. (Previously Presented) The system according to claim 8, further comprising means of, when user authentication has succeeded and a print process is executed, executing an accounting process of expendables associated with the document print process for each user or each department of a group to which the user belongs.

11. (Previously Presented) The system according to claim 8, wherein the attribute information contains various kinds of application attribute information

including at least one of an application name, application user, affiliation of the application user, password, use date, which are associated with the application used.

12. (Original) The system according to claim 7, further comprising means of, when user authentication has succeeded and a print process is executed, executing an accounting process associated with use of the application for each user or each department of a group to which the user belongs.

13. (Currently Amended) The system according to claim 8, wherein said authentication system comprises a client computer or print server which is installed with a printer driver, and a printer for executing the print process, which are connected via a network, and

 said obtaining means and extraction means [[is]] are included in the printer driver, and said user authentication means is included in the printer.

14. (Previously Presented) The system according to claim 8, wherein said user authentication means compares an ID and password found based on the attribute information, and an ID and password that a user inputs to a printer.

15. (Previously Presented) A printer driver in an authentication system which executes a print process that requires user authentication, comprising:
 a receiving step of receiving information identifying an application which has issued an instruction to print electronic data of a print object;

a selecting step of selecting information required for user authentication from the information identifying the application received in said receiving step;

 a sending step of sending a user authentication request appended with the selected information to a server via a network; and

 a controlling step of, when user authentication has succeeded, controlling a printer to execute the print process.

16. (Currently Amended) A printer driver, stored on a computer-readable medium, in an authentication system which executes a print process that requires user authentication, comprising:

 a receiving step of receiving information identifying an application which has issued an instruction to print electronic data of a print object;

 a selecting step of selecting information required for user authentication from the information identifying the application received in said receiving step; and

 a sending step of sending print information appended with the selected information to a printer.

17. (Previously Presented) A server in an authentication system which executes a print process that requires user authentication, comprising:

 means of receiving information identifying an application which has issued an instruction to print electronic data of a print object from a printer driver via a network;

 means of checking a user authentication result by comparing the received information with user authentication information which is registered in advance; and

means of returning the user authentication result to the printer driver via the network.

18. (Previously Presented) The server according to claim 17, wherein said receiving means further receives user information from the print driver, and the user authentication information which is registered in advance contains related information of a user and a department of a group to which the user belongs, and

 said server further comprises means of, when user authentication has succeeded and a print process is executed, executing an accounting process of expendables associated with the document print process for each user or each department of the group to which the user belongs.

19. (Previously Presented) The server according to claim 18, wherein the user authentication information which is registered in advance contains related information of a user and a department of a group to which the user belongs, and

 said server further comprises means of, when user authentication has succeeded and a print process is executed, executing an accounting process associated with use of the application for each user or each department of the group to which the user belongs.

20. (Original) The server according to claim 17, further comprising:

means of registering and holding various kinds of attribute information of departments, affiliations, individuals, print accounting states, associated with clients, users, and groups who make a document print process; and

means of updating use states of a printer used in a print process for respective departments, affiliations, and individuals.

21. (Original) The server according to claim 20, wherein the attribute information contains various kinds of document attribute information including at least one of a document name, application name, document creator/updater, affiliation of the document creator/updater, password, create/update date, which are sent from a print server or client and are associated with a document print process, and

said checking means comprises means of executing department authentication of a user, group, affiliation, or the like by comparing a document creator/updater, affiliation of the document creator/updater, and password registered in said server on the basis of the various kinds of document attribute information.

22. (Previously Presented) The server according to claim 20, wherein the attribute information contains various kinds of application attribute information including at least one of an application name, application user, affiliation of the application user, password, use date, which are associated with the application used, and

said checking means comprises means of granting permission of use of the application on the basis of the application attribute information.

23. (Previously Presented) A printer in an authentication system which executes a print process that requires user authentication, comprising:

means of receiving information identifying an application which has issued an instruction to perform the print process from a printer driver together with print information;

means of inputting user authentication information; and

means of executing user authentication on the basis of a comparison result of the information identifying the application and the input user authentication information.

24. to 26. (Cancelled).

27. (Previously Presented) An information processing apparatus communicating with an external information processing apparatus performing a user authentication for a print process, comprising:

extracting means of extracting information identifying an application which has issued an instruction to print electronic data of a print object; and

output means of outputting the information extracted by said extracting means to said external information processing apparatus to use the information for a user authentication for the print process.

28. (Previously Presented) The apparatus according to claim 27, wherein said information further contains various kind of document attribute information

including at least one of a document name, document creator, application of the document creator, create date which are associated with a document print process.

29. (Previously Presented) The apparatus according to claim 27, wherein said information further contains an application name indicating an application to be used.

30. (Previously Presented) The apparatus according to claim 27, wherein said extracting means extracts the information by calling a printer driver module and API provided between OS and the printer driver module and causing OS to operate a document in said apparatus.

31. (Original) The apparatus according to claim 30, wherein said API is provided in the printer driver module.

32. (Previously Presented) The apparatus according to claim 30, wherein said extracting means calls said API in response to a print instruction inputted from the application.

33. (Previously Presented) A user authentication method of an information processing apparatus communicating with an external information processing apparatus performing a user authentication for a print process, comprising:

an extracting step of extracting information identifying an application which has issued an instruction to print electronic data of a print object; and

an output step of outputting the information extracted by said extracting step to said external information processing apparatus to use the information for a user authentication for the print process.

34. (Previously Presented) The method according to claim 33, wherein said information further contains various kind of document attribute information including at least one of a document name, document creator, application of the document creator, create date which are associated with a document print process.

35. (Previously Presented) The method according to claim 33, wherein said information further contains an application name indicating an application to be used.

36. (Previously Presented) The method according to claim 33, wherein in said extracting step, the information is extracted by calling a printer driver module and API provided between OS and the printer driver module and causing OS to operate a document in said apparatus.

37. (Previously Presented) The method according to claim 36, wherein said API is provided in the printer driver module.

38. (Previously Presented) The method according to claim 36, wherein in said extracting step, said API is called in response to a print instruction inputted from the application.

39. (Previously Presented) A user authentication method of a server in an authentication system which executes a print process that requires user authentication, comprising:

a receiving step of receiving information identifying an application which has issued an instruction to print electronic data of a print object from a printer driver via a network;

a checking step of checking a user authentication result by comparing the received information with user authentication information which is registered in advance; and

a returning step of returning the user authentication result to the printer driver via the network.

40. (Previously Presented) A user authentication method of a printer in an authentication system which executes a print process that requires user authentication, comprising:

a receiving step of receiving information identifying an application which has issued an instruction to perform the print process from a printer driver together with print information;

an inputting step of inputting user authentication information; and

an executing step of executing user authentication on the basis of a comparison result of the information identifying the application and the input user authentication information.

41. (Previously Presented) A computer-readable storage medium storing a computer-executable program for performing the user authentication method according to claim 33.

42. (Previously Presented) A computer-readable storage medium storing a computer-executable program for performing the user authentication method according to claim 39.

43. (Previously Presented) A computer-readable storage medium storing a computer-executable program for performing the user authentication method according to claim 40.